

Amended claims

(94)

1. Method for coding a presentation description of audio signals, comprising:
- 5 generating a parametric description of a sound source; linking the parametric description of said sound source with the audio signal of said sound source;
- characterized by**
- describing the wideness of a non-point sound source (LSS) by
- 10 means of said parametric description (ND1, ND2, ND3), wherein a shape approximating said non-point sound source is defined; and
- assigning one of several decorrelations (DIS) to said non-point sound source in order to allow the usage of the same
- 15 audio signal for more than one non-point sound source.
2. Method according to claim 1, wherein separate sound sources are coded as separate audio objects and the arrangement of the sound sources in a sound scene is described by
- 20 a scene description having first nodes corresponding to the separate audio objects and second nodes describing the presentation of the audio objects and wherein a second node describes the wideness of a non-point sound source and defines the presentation of said non-point sound source by
- 25 multiple decorrelated point sound sources (S1, S2, S3).
3. Method according to claim 1 or 2, wherein the strenght of the decorrelation (DES) of said multiple decorrelated point sound sources is assigned to said non-point sound
- 30 source.
4. Method according to any of claims 1 to 3, wherein the size of the defined shape is given by parameters in a 3D coordinate system.
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5. Method according to claim 4, wherein the size of the defined shape is given by an opening-angle having a vertical

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and a horizontal component.

6. Method according to any of claims 1 to 5, wherein a complex shaped non-point sound source is divided into several non-point sound sources each having a shape (A1, A2, A3) approximating a part of said complex shaped non-point sound source and wherein the same audio signal is used for each of said several non-point sound sources.

7. Method for decoding a presentation description of audio signals, comprising:
receiving audio signals corresponding to a sound source linked with a parametric description of said sound source; characterized by
evaluating the parametric description (ND1, ND2, ND3) of said sound source for determining the wideness of a non-point sound source (LSS), wherein said parametric description includes a definition of a shape approximating said non-point sound source; and
selecting one of several decorrelations (DIS) for the audio signal of said non-point sound source depending on a corresponding indication in said parametric description.

8. Method according to claim 7, wherein audio objects representing separate sound sources are separately decoded and a single soundtrack is composed from the decoded audio objects using a scene description having first nodes corresponding to the separate audio objects and second nodes describing the processing of the audio objects, and wherein a second node describes the wideness of a non-point sound source and defines the presentation of said non-point sound source by means of multiple decorrelated point sound sources emitting decorrelated signals.

9. Method according to claim 7 or 8, wherein the strenght of the decorrelation (DES) of said multiple decorrelated point sound sources is selected depending on corresponding

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indications assigned to said non-point sound source.

10. Method according to any of claims 7 to 9, wherein the size of the defined shape is determined using parameters in
5 a 3D coordinate system.

11. Method according to claim 10, wherein the size of the defined shape is determined using an opening-angle having a vertical and a horizontal component.
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12. Method according to any of claims 7 to 11, wherein several non-point sound sources shapes (A1, A2, A3) each having a shape (A1, A2, A3) approximating a part of a complex shaped non-point sound source are combined to generate an
15 approximation of said complex shaped non-point sound source and wherein the same audio signal is used for each of said several non-point sound sources.

13. Apparatus for performing a method according to any of
20 claims 1 to 12.